

Message Text

SECRET

PAGE 01 GENEVA 06790 051000Z
ACTION SS-25

INFO OCT-01 ISO-00 SSO-00 NSCE-00 DODE-00 CIAE-00
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TO SECSTATE WASHDC IMMEDIATE 9206
INFO AMEMBASSY LONDON PRIORITY
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S E C R E T GENEVA 06790

EXDIS USCTB

PASS TO DOE

E.O. 11652: XGDS-3
TAGS: PARM US UK UR
SUBJECT: CTB NEGOTIATIONS: CLARIFICATION OF ILLUSTRATIVE
LANGUAGE IN TECHNICAL ANNEX ON ARRAY STATIONS

CTB MESSAGE NO. 193

1. IN THE PRESENT TEXT, UNDER SECTION B (ARRAY STATIONS),
PARAGRAPH 2 (BOREHOLE PACKAGE) SUB-PARAGRAPH A (SEISMOM-
ETERS), THE SECOND SENTENCE IS THE FOLLOWING: "SHORT-
PERIOD DATA WILL BE OBTAINED FROM A SEISMOMETER SPECIFI-
CALLY DESIGNED FOR THAT PURPOSE, AND SHALL SENSE EARTH
MOTION IN ONE VERTICAL AND TWO ORTHOGONAL HORIZONTAL
AXES IN THE FREQUENCY BAND FROM 0.1 TO 10 HZ."

2. AT THE PRESENT TIME, THERE IS LITTLE IF ANY TECHNICAL
JUSTIFICATION FOR A HORIZONTAL SHORT-PERIOD ARRAY. WHILE
PHASES SUCH AS S(N) WILL BE HELPFUL IN DEPTH DETERMINATION,

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HORIZONTAL ARRAY DATA KNOWN TO US DOES NOT DISPLAY
SIGNIFICANT COHERENCY AND THEREFORE WOULD NOT LEAD TO
SUBSTANTIAL ARRAY SIGNAL-TO-NOISE GAIN. MOREOVER, THE
LONG OR MID-PERIOD RANGES THAT HAVE BEEN PROPOSED HAVE
HORIZONTAL COMPONENTS IN THE FREQUENCY BAND FROM 0.01 TO
10 HZ. JUSTIFICATION IN THE LONG OR MID-PERIOD CONTEXT
CAN BE PRESENTED IN TERMS OF THREE-COMPONENT PROCESSING.

3. BY DELETING THE HORIZONTAL COMPONENTS FROM THE SHORT PERIOD SENSORS, WE WOULD HAVE APPROXIMATELY 13 ELEMENTS INSTEAD OF 25 ELEMENTS FOR THE RECORDING OF SHEAR CRUSTAL PHASES. THEREFORE, IT IS PROPOSED THAT THE ABOVE LANGUAGE BE MODIFIED AS FOLLOWS: "...AND SHALL SENSE EARTH MOTION IN THE VERTICAL AXES IN THE FREQUENCY BAND FROM 0.1 TO 10 HZ." WE ARE PLANNING TO TABLE ON MAY 8 ILLUSTRATIVE LANGUAGE DEVELOPED BY THE INTERAGENCY WORKING GROUP, AND WILL INCLUDE MODIFICATION SUGGESTED ABOVE UNLESS OTHERWISE INSTRUCTED. JOHNSON

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NNN

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